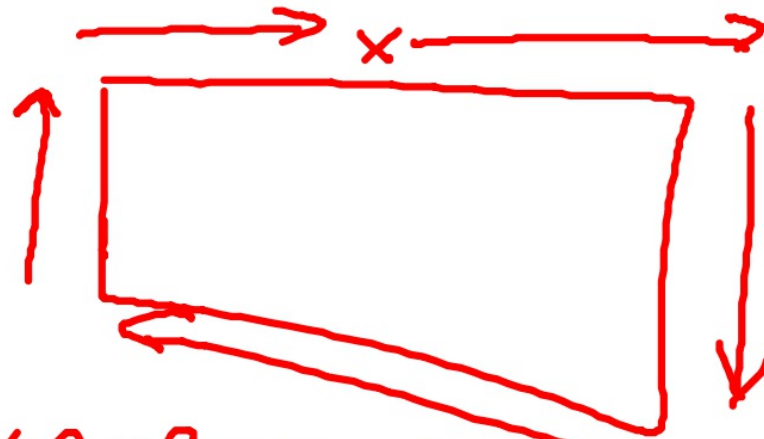


DISTANCE IN OUR WALK
WAS 610 m



DISPLACEMENT WAS ZERO

- Because we started & stopped @ the same point

time (t) measure time in
SECONDS* OR HOURS

Speed (s) the amount of
Distance over
the amount of
Time.

$$S = \frac{d}{t} = \frac{\text{distance}}{\text{time}}$$

$$t = 5 \text{ min} \times \frac{60 \text{ sec}}{1 \text{ min}} = 300 \text{ sec}$$

$$d = 610 \text{ m}$$

Average speed the Average
Speed of the
entire trip.

$$S = \frac{d}{t} = \frac{610 \text{ m}}{300 \text{ s}} = 2.0\bar{3} \text{ m/s}$$

$$S = 2.03 \text{ m/s}$$

Instantaneous Speed -
the speed at a particular
instant in time.

Radar gun
Speedometer

VASCAR

Velocity (v)
is displacement over
a period of time...

$$v = \frac{x}{t} = \frac{\text{displacement}}{\text{time}}$$

Vector - A measurement
WITH A DIRECTION

Scalar - A measurement
without a direction

NAME	Symbol	measurement	<u>Vector</u> <u>Scalar</u>
distance	d	cm (m) or Km	S
displacement	x	cm (m) Km	V
time	t	(s) hr	S
Speed	s	(m/s) km/h	S
velocity	v	(m/s), km/h	V
acceleration	a	m/s^2	V